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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/525,515 03/15/2000		03/15/2000	Alan H. Karp	10992554-1	9501
22879	7590	09/29/2004	EXAMINER		
		CARD COMPANY	BASHORE, ALAIN L		
	-	404 E. HARMONY : PROPERTY ADMIN	ART UNIT	PAPER NUMBER	
FORT COL	LINS, C	CO 80527-2400	3624		
				DATE MAILED: 09/29/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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4	•	Applicat	ion No.	Applicant(s)	K-				
055			515	KARP ET AL.	7				
	Office Action Summary	Examine	er	Art Unit					
		Alain L. I		3624					
Period fo	The MAILING DATE of this communi or Reply	cation appears on th	ne cover sheet with the o	correspondence add	ress				
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOMAILING DATE OF THIS COMMUNION in sions of time may be available under the provisions of the provisions of the provision of the pr	CATION. of 37 CFR 1.136(a). In no e unication. or days, a reply within the sta tutory period will apply and will, by statute, cause the ap	event, however, may a reply be ting atutory minimum of thirty (30) day will expire SIX (6) MONTHS from application to become ABANDONE	nely filed ys will be considered timely. the mailing date of this con ED (35 U.S.C. § 133).	nmunication.				
Status									
1)[\]	Responsive to communication(s) file	d on 17 June 2004							
•	•	b) This action is	non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
5)□ 6)⊠ 7)□	Claim(s) 1-20 is/are pending in the a 4a) Of the above claim(s) is/ar Claim(s) is/are allowed. Claim(s) 1-20 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restrict	e withdrawn from c							
Applicat	ion Papers								
9)[The specification is objected to by the	e Examiner.							
10)	The drawing(s) filed on is/are:	a) accepted or b	o) objected to by the	Examiner.					
	Applicant may not request that any object	tion to the drawing(s)	be held in abeyance. Se	e 37 CFR 1.85(a).					
11)	Replacement drawing sheet(s) including The oath or declaration is objected to	· ·	=	-	* *				
Priority (ınder 35 U.S.C. § 119								
a)	Acknowledgment is made of a claim for the priority of the certified copies of the certified copies of the priority of the prio	documents have be documents have be of the priority docum nal Bureau (PCT Ru	en received. en received in Applicat nents have been receiv ule 17.2(a)).	ion No ed in this National S	Stage				
Attachmen	t(s)		_						
	ce of References Cited (PTO-892)	ro 049)	4) Interview Summary Paper No(s)/Mail D	(PTO-413)					
3) Infor	te of Draftsperson's Patent Drawing Review (Pomation Disclosure Statement(s) (PTO-1449 or Internation Disclosure Date		5) Notice of Informal F 6) Other:		152)				

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DETAILED ACTION

Response to Amendment

- 1. The reply filed on 6-17-04 is not fully responsive to the prior Office Action (See 37 CFR 1.111) because of the following omission(s) or matter(s): the 35 U.S.C 101 rejection was deemed by applicant to be improper. A further elaboration of the patent office position regarding technical basis requirement is hereby given below for applicant to consider and to comment (with or without further amendment) before the art rejection is re-considered.
- a. <u>The 35 U.S.C. 101 rejection</u>: Claims 1-19 are rejected under 35 U.S.C. 101 as non-statutory because the method claims as presented do not claim a technological basis. Without a claimed basis, the claims are interpreted as involving no more than a manipulation outside of a technological art and therefore non-statutory under 35 U.S.C. 101.

In contrast, a method claim that includes in the preamble and body of the claim structural / functional interrelationships that are solely by computer (and non-trivial) are considered to have a technological basis and thus within the technological arts [See Ex parte Bowman, 61 USPQ2d 1669, 1671 (Bd. Pat. App. & Inter. 2001) – used only for content and reasoning since not precedential].

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Claims which are broad enough to read on statutory subject matter and on nonstatutory subject matter are considered nonstatutory [see <u>In re Lintner</u>, 458 F.2d 1013, 1015, 173 USPQ 560, 562 (CCPA 1972)].

b. <u>Further elaboration:</u>

As an initial matter, the United States Constitution under Art. I, §8, cl. 8 gave Congress the power to "[p]romote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries". In carrying out this power, Congress authorized under 35 U.S.C. §101 a grant of a patent to "[w]hoever invents or discovers any new and useful process, machine, manufacture, or composition or matter, or any new and useful improvement thereof." Therefore, a fundamental premise is that a patent is a statutorily created vehicle for Congress to confer an exclusive right to the inventors for "inventions" that promote the progress of "science and the useful arts". The phrase "technological arts" has been created and used by the courts to offer another view of the term "useful arts". See *In re Musgrave*, 167 USPQ (BNA) 280 (CCPA 1970). Hence, the first test of whether an invention is eligible for a patent is to determine if the invention is within the "technological arts".

Further, despite the express language of §101, several judicially created exceptions have been established to exclude certain subject matter as being patentable subject matter covered by §101. These exceptions include "laws of nature", "natural phenomena", and "abstract ideas". See *Diamond v. Diehr*, 450, U.S. 175, 185, 209 USPQ (BNA) 1, 7 (1981). However, courts have found that even if an invention incorporates abstract ideas, such as mathematical algorithms, the invention may nevertheless be statutory subject matter if the invention as a whole produces a "useful, concrete and tangible result." See *State Street Bank & Trust Co. v. Signature Financial Group, Inc.* 149 F.3d 1368, 1973, 47 USPQ2d (BNA) 1596 (Fed. Cir. 1998).

This "two prong" test was evident when the Court of Customs and Patent Appeals (CCPA) decided an appeal from the Board of Patent Appeals and Interferences (BPAI). See *In re Toma*, 197 USPQ (BNA) 852 (CCPA 1978). In *Toma*, the court held that the recited mathematical algorithm did not render the claim as a whole non-statutory using the Freeman-Walter-Abele test as applied to *Gottschalk v. Benson*, 409 U.S. 63, 175 USPQ (BNA) 673 (1972). Additionally, the court decided separately on the issue of the "technological arts". The court developed a "technological arts" analysis:

The "technological" or "useful" arts inquiry must focus on whether the claimed subject matter...is statutory, not on whether the product of the claimed subject matter...is statutory, not on

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whether the prior art which the claimed subject matter purports to replace...is statutory, and not on whether the claimed subject matter is presently perceived to be an improvement over the prior art, e.g., whether it "enhances" the operation of a machine. *In re Toma* at 857.

In *Toma*, the claimed invention was a computer program for translating a source human language (e.g., Russian) into a target human language (e.g., English). The court found that the claimed computer implemented process was within the "technological art" because the claimed invention was an operation being performed by a computer within a computer.

The decision in State Street Bank & Trust Co. v. Signature Financial Group, Inc. never addressed this prong of the test. In State Street Bank & Trust Co., the court found that the "mathematical exception" using the Freeman-Walter-Abele test has little, if any, application to determining the presence of statutory subject matter but rather, statutory subject matter should be based on whether the operation produces a "useful, concrete and tangible result". See State Street Bank & Trust Co. at 1374. Furthermore, the court found that there was no "business method exception" since the court decisions that purported to create such exceptions were based on novelty or lack of enablement issues and not on statutory grounds. Therefore, the court held that "[w]hether the patent's claims are too broad to be patentable is not to be judged under §101, but rather under §§102, 103 and 112." See State Street Bank & Trust Co. at 1377. Both of these analysis goes towards whether the claimed invention is non-statutory because of the presence of an abstract idea. Indeed, State Street abolished the Freeman-Walter-Abele test used in Toma. However, State Street never addressed the second part of the analysis, i.e., the "technological arts" test established in Toma because the invention in State Street (i.e., a computerized system for determining the year-end income, expense, and capital gain or loss for the portfolio) was already determined to be within the technological arts under the Toma test. This dichotomy has been recently acknowledged by the Board of Patent Appeals and Interferences (BPAI) in affirming a §101 rejection finding the claimed invention to be non-statutory. See Ex parte Bowman, 61 USPQ2d (BNA) 1669 (BdPatApp&Int 2001).

2. Since the above-mentioned reply appears to be *bona fide*, applicant is given **ONE** (1) **MONTH or THIRTY** (30) **DAYS** from the mailing date of this notice, whichever is longer, within which to supply the omission or correction in order to avoid abandonment. EXTENSIONS OF THIS TIME PERIOD MAY BE GRANTED UNDER 37 CFR 1.136(a).

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Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alain L. Bashore whose telephone number is 703-308-1884. The examiner can normally be reached on about 7:00 am to 4:30 pm (Monday thru Thursday).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vincent Millin can be reached on 703-308-1065. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Alain L. Bashore
Primary Examiner
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